



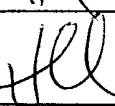
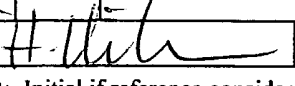
U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.		Serial No.	
					AK2-C2		10/808089	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicants			
(Use several sheets if necessary)					Suckane et al.			
					Filing Date		Group	
					3/23/04		Unknown	
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
HU	AA	5,051,288	9/1991	Ahlert et al.	428	64		
	AB	5,147,732	9/1992	Shiroishi et al.	428	668		
	AC	5,580,667	12/1996	Lal et al.	428	610		
	AD	5,607,740	3/1997	Noda	428	65.3		
	AE	5,688,380	11/1997	Koike et al.	204	192.2		
	AF	5,693,426	12/1997	Lee et al.	428	611		
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	AH	5,756,202	5/1998	Van Kestersen et al.	428	332		
	AI	5,834,111	11/1998	Lal et al.	428	332		
	AJ	5,843,569	12/1998	Kaitsu et al.	428	323		
OK	AK	5,846,648	12/1998	Chen et al.	428	332		
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							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
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	AM	0 704 839 A1	4/1996	EP				
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OK	AP	1 059 629 A3	3/2002	EP				
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
HU	AQ	H.J. Richter et al., "Dynamic Coercivity Effects In Thin Film Media", IEEE Transactions on Magnetics, Vol. 34, No. 4, Jul. 1998 pp. 1540-1542.						
HU	AR	Pu-Ling Lu et al., "Thermal Instability at 10 Gbit/in ² Magnetic Recording", IEEE Transactions on Magnetics, vol. 30, no. 6, Nov. 1994, pp. 4230-4232.						
HU	AS	S.S.P. Parkin, "Systematic Variation in the Strength and Oscillation Period of Indirect Magnetic Exchange Coupling through the 3d, 4d, and 5d Transition Metals", Physical Rev. Letters, 12/16/91, pp. 3598-3601.						
Examiner		H. Kite		Date Considered		11/18/04		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

* Did not receive any FOR or NPL.

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					3/23/04		Unknown	
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
Hcl ↓	AA	5,851,643	12/1998	Honda et al.	428	212		
	AB	5,851,656	12/1998	Ohkubo	428	332		
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	AD	6,077,586	6/2000	Bian et al.	428	65.3		
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Hcl ↓	AL	2355018 A	4/2001	GB			Yes	No
	AM	6-349047	12/1994	JP				
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	AO	7-176027	7/1995	JP				
	AP	7-121863	12/1995	JP				
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Hcl ↓	AQ	Pu-Ling Lu et al., "High Density Magnetic Recording Media Design and Identification: Susceptibility to Thermal Decay", IEEE Transactions on Magnetism, Vol. 31, No. 6, Nov. 1995, pp. 2767-2769.						
	AR	I. Okamoto et al., "Rigid Disk Medium for 5Gb/in ² Recording", IEEE Intermag 1996 Digest						
	AS	Y. Hosoe et al., "Experimental Study of Thermal Decay in High-Density Magnetic Recording Media", IEEE Transactions on Magnetism, vol. 33, No. 5, Sept. 1997, pp. 3028-3030.						
Examiner		Date Considered						
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Foreign Patent Documents							
		Document	Date	Country	Class	Subclass	Translation
							Yes No
HL	AL	8-129738	5/1996	JP			
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	AO	10-092637	4/1998	JP			
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
HL	AQ	Pu-Ling Lu et al., "Magnetic Viscosity in High-Density Recording", J. Appl. Phys. 75(10), May 15, 1994, pp. 5768-5770.					
	AR	E.N. Abarra et al., "Thermal Stability of Narrow Track Bits in a 5 Gbit/in ² Medium", IEEE Transactions on Magnetics, Vol. 33, No. 5, Sep. 1997, pp. 2995-2997.					
	AS	L. He et al., "High-Speed Switching in Magnetic Recording Media", Journal of Magnetism and Magnetic Materials 155 (1996) 6-12.					
Examiner	H. [Signature]	Date Considered 11/18/04					
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		Document	Date	Country	Class	Subclass	Yes	No
HLL	AL	10-289,434	10/1998	JP	 	 		
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HLL	AQ	Akimoto et al., "Relationship Between Magnetic Circumferential Orientation and Magnetic Thermal Stability, Recording Performance", Journal of Magnetic Society of Japan, vol. 24, No. 4-1, 2000, pp.176-179						
HLL	AR	E.N. Abarra et al., "The Effect of Orientation Ratio on the Dynamic Coercivity of Media for >15 Gbit/in ² Recording", IEEE Transactions on Magnetics, vol. 35, No. 5, Sep. 1999, pp. 2709-2711.						
HLL	AS	M.N. Baibich et al., "Giant Magnetoresistance of (001)Fe/(001)Cr Magnetic Superlattices", Physical Review Letters, vol. 61, No. 21, Nov. 21, 1998, pp. 2472-2475						
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Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AL							
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	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AQ	K. Meguro et al., "Spin-Valve Films Using Synthetic Ferrimagnetics for Pinned Layer", Intermag. Conf. May 18-19, 1999, p. BR-08.						
	AR	K. Meguro et al., "Spin-Valve Films Using Synthetic Ferrimagnets for Pinned Layer", IEEE Transactions on Magnetism, vol. 35, no. 5, Sep. 1999, pp. 2925-2927.						
	AS	H. Akimoto et al., "Magnetic Relaxation in Thin Film Media as a Function of Orientation Ratio", Journal of Magnetism and Magnetic Materials 193 (1999) 240-244.						
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	AL							
	AM							
	AN							
	AO							
	AP							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>Hll</i>	AQ	Parkin et al., "Oscillations in Exchange Coupling and Magnetoresistance in Metallic Superlattice Structures: Co/Ru, Co/Cr, and Fe/Cr", Phys. Rev. Letters, vol. 64, no. 19, May 7, 1990, pp. 2304-2307.						
<i>Hll</i>	AR	E.S. Murdock et al., "Noise Properties of Multilayered Co-alloy Magnetic Recording Media ", IEEE Transactions on Magnetism, vol. 26, no. 5, Sep. 1990, pp. 2700-2705.						
<i>Hll</i>	AS	Li-Lien Lee et al., "NiAl Underlayers for CoCrTa Magnetic Thin Films", IEEE Transactions on Magnetism, vol. 30, no. 6, Nov. 1994, pp. 3951-3953.						
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